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Join Date: Oct 2018 Location: USA Posts: 3 Upvotes: 0 Received 0 Upvotes on 0 Posts Replacing 4040 solenoid valve on humidifier Hi all New to the forums (and also a general DIY newbie, so please excuse my ignorance) and hoping for some help. Just found out my Lennox Healthy Climate bypass humidifier stopped working. Did some troubleshooting and googling and I think I have identified the solenoid valve as the culprit (the unit is just over 5 years old). I want to replace the valve myself. I've got the water lines all figured out. My question involves the wiring. Currently, there are two yellow wires coming from the valve which are connected to two brown wires (via wire nuts), one from the humidistat and one from the furnace. There doesn't appear to be any distinguishing marks or labels on the yellow wires. The replacement solenoid has two blue wires coming out of it. How do I know which blue wire to connect to which brown wire? Thanks in advance for your time and help! Welcome to the forums. Yeah..... those solenoids do occasionally fail although it's not very common.A more typical problem is that they allow water to piss thru when un-powered.Since we are dealing with AC here..... there is no polarity to the wires. Join Date: Oct 2018 Location: USA Posts: 3 Upvotes: 0 Received 0 Upvotes on 0 Posts Thanks very much. Got it wired up and its working again! Join Date: Oct 2018 Location: USA Posts: 3 Upvotes: 0 Received 0 Upvotes on 0 Posts Well unfortunately after a couple of days the new solenoid valve seems to have the problem that PJ Max refer to in that it's allowing water to pass through even when unpowered. Not sure if this new valve is defective or if I got the wrong one.... have a quick question. The old valve has this line on the label- Ident:05/13. The new replacement valve has this - Ident: 37/13. What does that line refer to? And is the difference important? 05/13 = fifth week of February 2013 production.37/13 = thirty seventh week or September 2013 production.Several companies sell replacement solenoids for humidifiers. They are pretty much all the same thing. Some humidifiers use a reducing bushing in the line..... that is moved to the new valve. Posted by Alexis Peterson on 7th Nov 2016 Honeywell has introduced their new T Series as a replacement for over 36 current thermostat models. The market is flooded with so many different options and they all do the same thing: keep the temp in your home comfy.So why should we get excited?Honeywell's flagship model, the Lyric T6 Pro Wi-Fi, is the brand's next iteration of smart thermostats.The T Series programmable thermostat streamlines everything from product selection and installation to customer service and support. With a standard footprint and simple interface, the T Series will enhance the entire thermostat experience for everyone.Here are some additional features of the Honeywell Lyric T6 Pro: New design: The T6 has a glossy white finish, a white trim and is touchscreen programmableRelated app: The Lyric T6 Pro will be accessible via the Lyric app for Android and iPhoneGeofencing: Use the app to set custom Home and Away distances so your phone can make the changes automaticallyAuto changeover:Program the T6 to decide for you if your thermostat should be set to heat or air conditioningSmart response: The T6 is supposed to learn your routines and set the heat or A/C to the exact temperature you wantSmart alerts: You can opt in to alerts based on needing to change a filter and extreme temperatures applyLyric T6 Pro thermostatatthermostat appwifi thermostatPosted by Mike McCollin on 23rd Nov 2016 The holiday season is upon us once again and, with it, the coldest part of the year also returns. At this time of year, nothing is more important than keeping your family and friends warm and comfortable on those chilly nights when you get together for some good times and holiday cheer.Keeping things warm and toasty means more than just good intentions. It also requires a reliable and efficient heating system. An excellent heating system is more than just a good idea, it is actually a necessity in this day and age. Old or dilapidated furnace systems are more than just costly; there are also potential safety hazards.A prudent homeowner should schedule a professional furnace inspection before the onset of the winter heating season. This simple step will assure that your furnace system is working up to its full potential and also identify any possible future problems before they occur. Especially, ensuring that your furnace is energy efficient. That way, you, and your loved ones will always remain warm. It will also reduce your repair and energy bills.A well maintained heating system is simply the best way to keep you, your family and your friends in the best of health and holiday spirit. Be sure that yours is up to date and well-maintained. Your family and your guests will appreciate it and so will your wallet. I show how to replace the solenoid on a whole house humidifier. The 4040 24 volt humidifier solenoid valve is compatible with a wide range of whole house humidifiers. Check the label on the old solenoid valve before purchasing a new solenoid valve for compatibility. Here is a link to this solenoid and a list of replacement part numbers out more home improvement tips on our weekly podcast for Aprilaire on 9th Dec 2016 Below is the Aprilaire 4040 solenoid valve. Its a 24 volt electrically-operated valve that turns the water on and off to your humidifier. It does not regulate the volume or amount of water- that is done by a separate item called the orifice. Preinstalled inside of this valve, in this brass section here, is a strainer screen. That is used to filter the water before it gets in the valve, and catch things like sand and dirt which might plug up the valve. Now, this valve needs to be replaced roughly every ten years, more often if it fails, stuck open or closed.Prior to performing any replacement, check the condition of all components, like the wires, tubes and lines looking for any discoloration, buildup, odd smells or other signs that something could be wrong. If you see something amiss, STOP and call your licensed tech. After notifying him or her, turn off all power and water to your unit and follow any additional instructions your tech gives you. Replacement is easy. Heres how: Part 1 The first step is to locate the arrow found on the solenoid valve that is currently installed in your unit, write this down and remember that the arrow should be pointed towards the feed tube. When doing this, also note where the wires are connected. Your solenoid should look similar to the one below: The arrow has been circled in RED below: Step 2 Turn off the powerbefore performing any maintenance.. Step 3 Shut off the water. You can do this by finding the saddle valve and turning it clockwise until it stops. Pictured below is a saddle valve. Step 4 Gather the following tools: 1/2" Wrench7/16" WrenchPhillips head screwdriverOnce you have your tools, double check that the water is turned off and the electrical is disconnected. Now it's time to remove the solenoid valve. Step 5 First thing we'll do is loosen up the pipes. Then remove the pipes. Step 6 Now we'll remove the mounting. This is done by unscrewing the two mounting screws. Don't forget to write down- or take a photo- of which direction the arrow is pointing! Now it's time to begin Part 2: Installing the New Valve Its important that the arrow be pointing towards the feed tube. Thats the direction of the water flow. Step 1 Lets mount it to the unit first. Make sure to tighten up the screws. Step 2 Now were ready to connect the water lines. Heres the water inlet line. Make it hand-tight. And the feed tube. Make it hand-tight as well. Step 3 Now lets snug them up. Now the only thing remaining is to connect the electrical.If you encounter problems, please watch these other videos for assistance:Aprilaire Strainer ScreenAprilaire Feed Tube AssemblyWater LeakageAprilaire Orifice Basics All information above is owned by and created by Aprilaire. ClimateDoctors is not responsible for the content or advise contained above. The Humidifier Solenoid Valve A Common Frustration J. Paige Freeland; Marketing Manager, General Filters, Inc. A common frustration among homeowners who installed and use a whole house humidifier in their HVAC system is a malfunctioning solenoid valve. A solenoid valve is a control unit that uses electricity to automate the opening and closing of an orifice in the valve body, allowing, preventing, or redirecting the flow of water, gas, or other medium. It is made up of three main parts: the solenoid body, the electromagnetically inductive coil, and internal components (stem, plunger, and spring). Solenoid valves are used in washing machines, dishwashers, ice makers, refrigerators, vending machines, sprinklers, and many other systems requiring water flow. As such, whole-house humidifiers utilize a solenoid valve to control the amount of water flowing to the humidifier; specifically, an electromagnetic two-way (with 2 ports; inlet and outlet) solenoid valve. Why do they fail? Can they be cleaned? Or do they need to be replaced? There are several reasons a solenoid valve may stop working properly. The most common reason solenoid valves fail is that dirt or other contaminants become lodged in the valve seat, preventing the solenoid from opening or closing properly. Solution: A simple cleaning may be all that is needed. 2.Improper voltages, electrical malfunction, or loss of power canalso cause: Improper opening or closing. Corrosion. Burnt-out coils. Freezing in the open, closed or partially-opened position it was last operating in. Solution: Check that the manufacturer-recommended voltage to the humidifier and valve are correct. Excessive fluid pressure differentials between the inlet and outlet sides of a valve can cause internal valve components to buzz or click during operation. Solution: Check fluid pressure and make adjustments as necessary. A leaky valve usually means that the solenoid is stuck open or partially open. This can be caused by a number of issues, but inevitably creates leakage of liquid. Causes included degraded O-rings, a plunger valve that does not close completely, cracks in the plunger valve seat, or internal dirt particle build up. Solution: The solenoid valve needs to be replaced. Clean vs. replace When debris collects in the valve seat of the solenoid valve body, it can simply be cleaned and returned to the humidifier. Corrosion can be removed by soaking in vinegar and water. As with any mechanical apparatus, proper and proactive maintenance and care of a solenoid valve can extend product life and ensure predictable operation. On average, a solenoid valve should last between 1 and 3 years. Does water supply matter? It can, yes. Water with high sediment levels can clog a solenoid valve more quickly; however, installing a filter in the water supply line prior to the solenoid valve will reduce the number of particles reaching the valve. Where theres water, theres maintenance; whether you have a decorative fountain, a bathtub with jets, a faucet aerator, or a humidifier. Your humidifier provides a valuable service in providing healthier indoor air quality. Maintaining it will ensure it will do so for years to come. Page 2 The Humidifier Solenoid Valve A Common Frustration J. Paige Freeland; Marketing Manager, General Filters, Inc. A common frustration among homeowners who installed and use a whole house humidifier in their HVAC system is a malfunctioning solenoid valve. A solenoid valve is a control unit that uses electricity to automate the opening and closing of an orifice in the valve body, allowing, preventing, or redirecting the flow of water, gas, or other medium. It is made up of three main parts: the solenoid body, the electromagnetically inductive coil, and internal components (stem, plunger, and spring). 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**Repair humidifier solenoid valve. How to replace solenoid valve on humidifier. What does a humidifier solenoid valve do. Humidifier solenoid valve. Humidifier solenoid valve stuck open. Troubleshoot humidifier solenoid valve.**